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         AUG 28
                 ADISCTI Reloaded and Enhanced
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         AUG 30
                 CA(SM)/CAplus(SM) Austrian patent law changes
NEWS
         SEP 21
                 CA/CAplus fields enhanced with simultaneous left and right
                 truncation
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         SEP 25
                 CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS
     8
         SEP 25
                 CAS REGISTRY(SM) no longer includes Concord 3D coordinates
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     9
         SEP 25
                 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
                 CEABA-VTB classification code fields reloaded with new
NEWS 10
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                 classification scheme
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         OCT 19
                 LOGOFF HOLD duration extended to 120 minutes
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                 E-mail format enhanced
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                 Option to turn off MARPAT highlighting enhancements available
NEWS 14 OCT 23
                 CAS Registry Number crossover limit increased to 300,000 in
                 multiple databases
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         OCT 23
                 The Derwent World Patents Index suite of databases on STN
                 has been enhanced and reloaded
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         OCT 30
                 CHEMLIST enhanced with new search and display field
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                 JAPIO enhanced with IPC 8 features and functionality
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                 CA/CAplus F-Term thesaurus enhanced
        NOV 10
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        NOV 20
                 CAS Registry Number crossover limit increased to 300,000 in
                 additional databases
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         NOV 20
                 CA/CAplus to MARPAT accession number crossover limit increased
                 to 50,000
                 CAS REGISTRY updated with new ambiguity codes
NEWS 22
         DEC 01
         DEC 11
NEWS 23
                 CAS REGISTRY chemical nomenclature enhanced
NEWS 24
         DEC 14
                 WPIDS/WPINDEX/WPIX manual codes updated
NEWS 25
         DEC 14
                 GBFULL and FRFULL enhanced with IPC 8 features and
                 functionality
                 CA/CAplus pre-1967 chemical substance index entries enhanced
NEWS 26
         DEC 18
                 with preparation role
NEWS 27
         DEC 18
                 CA/CAplus patent kind codes updated
                 MARPAT to CA/CAplus accession number crossover limit increased
NEWS 28
         DEC 18
                 to 50,000
NEWS 29
         DEC 18
                 MEDLINE updated in preparation for 2007 reload
         DEC 27
                 CA/CAplus enhanced with more pre-1907 records
NEWS EXPRESS
             NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
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MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 4 JAN 2007 HIGHEST RN 916790-89-1 DICTIONARY FILE UPDATES: 4 JAN 2007 HIGHEST RN 916790-89-1

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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chain nodes:
1 2 3 4 5 6 7 8 10 11 12 13

chain bonds :

 $1-2 \quad 1-10 \quad 2-3 \quad 3-4 \quad 4-5 \quad 4-8 \quad 5-6 \quad 6-7 \quad 10-11 \quad 11-12 \quad 11-13$

exact/norm bonds:
1-2 2-3 10-11
exact bonds:
1-10 3-4 4-5 4-8 5-6 6-7

1-10 3-4 4-5 4-8 5-6 6-7 11-12 11-13

G1:0,S

G2:0,S,N

Match level :

1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 10:CLASS

11:CLASS 12:CLASS 13:CLASS

Element Count : Node 1: Limited C,C10

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 11:16:45 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -26 TO ITERATE

100.0% PROCESSED 26 ITERATIONS SEARCH TIME: 00.00.01

1 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 215 TO

PROJECTED ANSWERS: 1 TO

L2 1 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 11:16:48 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED -458 TO ITERATE

100.0% PROCESSED 458 ITERATIONS 11 ANSWERS

SEARCH TIME: 00.00.01

11 SEA SSS FUL L1

=> fil hcaplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 172.10 172.31

FILE 'HCAPLUS' ENTERED AT 11:16:55 ON 05 JAN 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 5 Jan 2007 VOL 146 ISS 3 FILE LAST UPDATED: 4 Jan 2007 (20070104/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 2 L3

=> d ed ibib abs hitstr 1-2

CORPORATE SOURCE:

L4 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 05 Oct 2004 ACCESSION NUMBER: 2004:807711 HCAPLUS

DOCUMENT NUMBER: TITLE: 142:6669 Synthesis and Activity of Pluorescent Isoprenoid

AUTHOR (S):

SOURCE:

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

OTHER SOURCE(5):

MEMT NUMBER: 1e2:0005
E: Synthesis and Activity of Fluorescent Isoprenoid Pycophosphate Analogues
DR(S): Kie, HeeKyoung Kleckley, Troy S.; Wiemer, Andrew J.; Holstein, Sarah A.; Hohl, Raymond J.; Wiemer, David F. Departments of Chemistry Pharmacology and Internal Medicine, University of Iowa, Iowa City, IA, 52242-1294, USA Journal of Organic Chemistry (2004), 69(24), 8186-8193 CODEN: JOCEAN; ISSN: 0022-3263
ISHER: American Chemical Society
MEMT TYPE: USA Journal UNGE: English R SOURCE(S): CASREACT 142:6669
New fluorescent analogs of farnesol and geranylgeraniol were prepared and then converted to the corresponding pyrophosphates. These analogs incorporate anthranylate or dansyl-like groups anchored to the terpenoid skeleton through amine bonds that would be expected to be relatively stable to metabolism After addition of the alcs. or the pyrophosphates to

culture medium, their fluorescence is readily observed inside a

n-derived leukemia cell line. Enzyme assays have revealed that the farnesyl pyrophosphate analog is an inhibitor of FTase, while the corresponding alc. is not. These results, together with Western blot analyses of cell lysates, indicate that the farnesyl pyrophosphate analog penetrates the cells as an intact pyrophosphate and that it does so at a biol. relevant concentration 491861-22-49

NI: BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

or reagent)
(preparation of fluorescent analogs of farnesol and geramylgeraniol
pyrophosphates as cellular imaging agents an inhibitors of farnesyl
transferase)
491861-22-4 EKAPLUS
1-Naphthalenesulfonamide, 5-[[(2E,6E)-8-hydroxy-2,6-dimethyl-2,6octadienyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

798573-66-7 HCAPLUS
1-Naphthalenesulfonamide, 5-[[(2E,6E)-8-chloro-2,6-dimethyl-2,6-octadienyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

798573-68-9 HCAPLUS
1-Butanaminium, N.N.N-tributyl-, (2E,6E)-8-[[5-[(dimethylamino) sulfonyl]-1-naphthalenyl]amino]-3,7-dimethyl-2,6-octadienyl (diphosphate) (3:1) (9CI) (CA INDEX NAME)

1

CRN 798573-67-8 CMF C22 H29 N2 O9 P2 S

ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN 798573-69-0P (Continued)

RI: BSU (Biological study, unclassified): SPN (Synthetic preparation); BIOL (Biological study): PREP (Preparation) (preparation of fluorescent analogs of farnesol and geramylgeraniol pyrophosphates as cellular imaging agents an inhibitors of farnesyl transferams)

pyrophosphates as Cellular imaging agents an inhibitors of farnesyl transferase)
798573-69-0 MEAPLUS
Diphosphoric acid, mono[(2E,6E)-8-[[5-[(dimethylamino)sulfonyl]-1naphthalenyl]mino]-3,7-dimethyl-2,6-octadienyl] ester, triammonium salt
(SCI) (CA INDEX NAME)

Double bond geometry as shown.

●3 NH3

798573-65-6P 798573-66-7P 798573-68-9P
RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)
(preparation of fluorescent analogs of farnesol and geranylgeraniol pyrophosphates as cellular imaging agents an inhibitors of farnesyl transferase)
798573-65-6 HCAPUIS
1-Naphthalenesulfonamide, 5-[[(2E,6E)-8-[(1,1-disethyltchyl]disethylsilyl]cny]-2,6-dimethyl-2,6-octadienyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN CM 2 (Continued)

10549-76-5 C16 H36 N

IT 798573-64-5P

798573-64-59
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of fluorescent analogs of farnesol and geranylgeraniol
pyrophosphates as cellular imaging agents an inhibitors of farnesyl
transferase)
798573-64-5 ECAPLUS
1-Naphthalenesulfonamide, 5-[[(2E,6E)-8-(acetyloxy)-2,6-dimethyl-2,6octadienyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown

REFERENCE COUNT:

THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 31 Jan 2003
ACCESSION NUMBER: 2003:77548 HCAPLUS
DOCUMENT NUMBER: 138:142470
Inoprenoid analog compounds and methods of making and use thereof
Viener, David Hohl, Raymond J.
University of Iowa Research Foundation, USA
U.S. Pat. Appl. Publ., 18 pp.
CODEN: USXXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILITY ACC. NUM. COUNT: 1
English
FAMILITY ACC. NUM. COUNT: 1

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

us 2003022869	A1	20030130	US 2002-116737	20020403
US 6727234	B2	20040427		
US 2004167102	A1	20040826	US 2004-780391	20040217
PRIORITY APPLN. INFO.:			US 2001-281170P P	20010403
			US 2002-116737 A	3 20020403

OTHER SOURCE(S):

US 2001-281170P P 20010403
US 2001-281170P P 20010403
UR SOURCE(S): HARPAT 138:142470

Rhe invention provides isoprenoid compds, and their pharmaceutically acceptable salts useful, for example, for blocking prenylation transferase enzymes, for probing or diagnosing protein prenylation processes, and for treating cancer in a mammal. A method of accessing the metabolic status of an enzyme comprises (a) contacting the enzyme with an effective amount of aniture of a farnesol analog compound and a geraniol or geranylageraniol analog compound, and (b) measuring the relative ratio of farnesylation to geranylageraniol analog compound, and (b) measuring the relative ratio of farnesylation to geranylageraniol with the second compds. accompdished by the enzyme. The invention also provides pharmaceutical compns., and processes for preparing isoprenoid compds. and their intermediates.

49161-20-2P
RLI DN (Diagnostic use); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(isoprenoid analog compds. for diagnosis and treatment of cancer)
491861-20-2 HCAPUS
1-Naphthalenesulfonamide, 5-[[(2E,6E,10E)-12-hydroxy-2,6,10-trimethyl-2,6,10-dodecatrienyllamino]-N,N-dimethyl- (SCI) (CA INDEX NAME)

Double bond geometry as shown.

ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

491861-23-5 HCAPLUS
Diphosphoric acid, mono[(2E,6E)-0-[[5-[(dimethylamino) sulfomyl]-1naphthalenyl]amino]-3,7-dimethyl-2,6-octadienyl] ester (9CI) (CA INDEX NAME)

ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

491861-19-9P 491861-21-3P 491861-22-4P
491861-23-5P
RL: DGN (Diagnostic use); SFN (Synthetic preparation); THU (Therapeutic use); BIO. (Biological study); PREP (Preparation); USES (Uses)
(Isoprenoid analog compds. for diagnosis and treatment of cancer)
491861-19-9 HCAPLUS
1-Naphthalenesulfonamide, 5-[[(2E,6E,10E)-12-(acetyloxy)-2,6,10-trimethyl-2,6,10-dodecatrienyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

491861-21-3 HCAPLUS Diphosphoric acid, mono[(2E,6E,10E)-12-[[5-[(dimethylamino) sulfomy1]-1-naphthalenyl]amino]-3,7,11-trimethyl-2,6,10-dodecatrienyl] ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

491861-22-4 HCAPLUS
1-Naphthalenesulfonamide, 5-[[(2E,6E)-8-hydroxy-2,6-dimethyl-2,6-octadienyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	13.14	185.45
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.56	-1.56

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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REGISTRY includes numerically searchable data for experimental and

chain nodes : 1 2 3 4 5 6 7 8 chain bonds : ·

Structure attributes must be viewed using STN Express query preparation.

=> s 15 SAMPLE SEARCH INITIATED 11:18:25 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 12671 TO ITERATE

15.8% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 246676 TO 26016

PROJECTED ITERATIONS: 246676 TO 260164
PROJECTED ANSWERS: 0 TO 0

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FILE COVERS 1907 - 5 Jan 2007 VOL 146 ISS 3 FILE LAST UPDATED: 4 Jan 2007 (20070104/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 17 L8 20 L7

=> d ed ibib abs hitstr 1-20

L8 ANSWER 1 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 05 Sep 2005
ACCESSION NUMBER: 104:208564
TITLE: 144:208564
AVTHOR(S): Shono, Yoshihitor Murayama, Tetsurya
APPROATE SOURCE: Shinon, Yoshihitor Murayama, Tetsurya
Department of Bioresource Engineering, Faculty of Agriculture, Yamagata University, Tsuruoka, Yamagata, 997-8555, Japan
Zeitschrift fuer Naturforschung, B: Chemical Sciences (2005), 60(8), 889-890
CODEN: ZMRSEM; ISSN: 0932-0776
PUBLISHER: Verlag der Zeitschrift fuer Naturforschung
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Two new eremophilane sesquiterpenes, eremoxylarins A and B, were isolated from the xylericacous endophytic fungus YUA-026. Their structures were determined by spectroscopic methods. Eremoxylarins A and B showed antiaicrobial activity against Staphylococcus aureus and Pseudomonas acruginosa.

antimicrobial activity against Staphylococcus aureus and Pseudomonas aeruginosa.
875760-50-2P. Eremoxylarin B
RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PRPP (Preparation) (new eremophilane-type sequiterpenoids eremoxylarins A and B from xylariaceous endophytic fungus YUA-026 with antimicrobial activity against Staphylococcus aureus and Pseudomonas aeruginosa)
875760-50-2 HCAPLUS
1-Naphthalenecarboxylic acid, 7-(1-formylethenyl)-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-4-[[(ZE)-2,4,6-trimethyl-1-oxo-2-octenyl]oxy]-,(15,4R,7R,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown.

875760-52-4P, Eremoxylarin B methyl ester RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (new eremophilane-type sequiterpenoids eremoxylarins A and B from xylariaceous endophytic fungus YUA-026 with antimicrobial activity against Staphylococcus aureus and Pseudomonas aeruginosa) 875760-52-4 RCAPLUS

L8 ANSWER 2 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 05 Oct 2004
ACCESSION NUMBER: 2004:807711 HCAPLUS

TITLE: Synthesis and Activity of Fluorescent Isoprenoid Pyrophosphate Analogues

AUTHOR(S): Kia, MeeKyoung Kleckley, Troy S.; Wiemer, Andrew J.;
Holstein, Sarah A.; Hohl, Raymond J.; Wiemer, David F.
Departments of Chemistry Pharmacology and Internal Medicine, University of Iowa, Iowa City, IA,
S2242-1294, USA

SOURCE: Journal of Organic Chemistry (2004), 69(24), 8186-8193

COEN: JOCCAH; ISSN: 0022-3263

American Chemical Society
JOURNIT TYPE: Journal
LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:6669

AN New Fluorescent analogs of farnesol and geranylgeraniol were prepared and then converted to the corresponding pyrophosphates. These analogs incorporate anthranylate or danayl-like groups anchored to the terpenoid skeleton through amine bonds that would be expected to be relatively stable to metabolism After addition of the alcs. or the pyrophosphates to

culture medium, their fluorescence is readily observed inside a

n-derived leukemia cell line. Enzyme assays have revealed that the farnesyl pyrophosphate analog is an inhibitor of FTase, while the corresponding alc. is not. These results, together with Western blot analyses of cell lysates, indicate that the farnesyl pyrophosphate analog penetrates the cells as an intact pyrophosphate and that it does so at a biol. relevant concentration of 181861-22-4P

491861-22-4P
RLi SSU (Biological study, unclassified); RCT (Reactant); SFM (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(preparation of fluorescent analogs of farnesol and geranylgeraniol pyrophosphates as callular imaging agents an inhibitors of farnesyl transferase)
491861-22-4 BCAPLUS
1-Naphthalenesulfonamide, 5-{{(2E,6E)-8-hydroxy-2,6-dimethyl-2,6-octadienyl]amino}-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

798573-69-08 (786): SSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation of fluorescent analogs of farnesol and geramylgeraniol ANSWER 1 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
1-Maphthalenecarboxylic acid, 7-(1-forwylethenyl)-1,2,3,4,6,7,8,8aoctahydro-8a-methyl-6-oxo-4-[[(22)-2,4,6-trimethyl-1-oxo-2-octenyl]oxy]-,
methyl ester, (15,48,78,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown. Currently available stereo shown.

REFERENCE COUNT:

10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) pyrophosphates as cellular imaging agents an inhibitors of farnesyl

ANSWER 2 OF 20 mercos continuation and inhibitors of farnesyl pyrophosphates as cellular imaging agents an inhibitors of farnesyl transferase)
798573-69-0 HCAPIUS
Diphosphoric acid, mono((28,6E)-8-[[S-[(dimethylamino)sulfonyl]-1-naphthalenyl]amino]-3,7-dimethyl-2,6-octadienyl] ester, triammonium salt (9CI) (CA INDEX NAME)

Double bond geometry as shown.

●3 NH3

798573-65-6P 798573-66-7P 798573-68-9P
RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)
(preparation of fluorescent analogs of farnesol and geranylgeraniol pyrophosphates as cellular imaging agents an inhibitors of farnesyl transferase)
798573-65-6 HCAPLUS
1-Naphthalenesulfonamide, 5-[((2E,6E)-8-[[(1,1-dimethyl-thyl)dimethyl-1)]/[(CA INDEX NAME)]

Double bond geometry as shown.

798573-66-7 HCAPLUS
1-Naphthalenesulfonamide, 5-[[(2E,6E)-8-chloro-2,6-dimethyl-2,6-octadienyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

ANSWER 2 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

798573-68-9 HCAPLUS
1-Butanaminium, N,N,N-tributyl-, (2E,GE)-8-[{5-[(dimethylamino)sulfonyl]-1-naphthalenyl]amino]-3,7-dimethyl-2,6-octadienyl (diphosphate) (3:1) (9CI) (CA INDEX NAME)

CH 1

CRN 798573-67-8 CMF C22 H29 N2 O9 P2 S

Double bond geometry as shown.

CH!

798573-64-5P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of fluorescent analogs of farnesol and geranylgeraniol pyrophosphates as cellular imaging agents an inhibitors of farnesyl

L8 ANSWER 3 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 31 Jan 2003
ACCESSION NUMBER: 2003:77548 HCAPLUS
DOCUMENT NUMBER: 138:142470
ISOPRENDIA and methods of making and use thereof
INVENTOR(S): Viener, David; Hohl, Raymond J.
University of Iowa Research Foundation, USA
U.S. Pat Appl. Publ., 18 pp.
CODEN: USXNCO'
DOCUMENT TYPE: Patent

Patent English

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003022869	A1	20030130	US 2002-116737	20020403
US 6727234	B2	20040427		
US 2004167102	A1	20040826	US 2004-780391	20040217
PRIORITY APPLN. INFO.:			US 2001-281170P P	20010403
			UC 2002 11/777	200000400

PRIORITY APPLN. INFO.: US 2001-281170P P 20010403

OTHER SOURCE(S): MARPAT 138:142470

AB The invention provides isopremoid compds. and their pharmaceutically
acceptable salts useful, for example, for blocking premylation transferase
enzymes, for probing or diagnosing protein premylation processes, and for
treating cancer in a nammal. A method of accessing the metabolic status
of an enzyme comprises (a) contacting the enzyme with an effective amount of
a mixture of a farnesol analog compound and a geraniol or geranylgeraniol
analog compound, and (b) measuring the relative ratio of farnesylation to
geranylgeranylation of the farnesol and the geraniol or geranylgeraniol
analog compds. accomplished by the enzyme. The invention also provides
pharmaceutical compns., and processes for preparing isoprenoid compds. and
their intermediates.

IT 491861-20-2P
RL: DGN (Diagnostic use), RCT (Reactant), SPN (Synthetic preparation), THU
(Therapeutic use), BIOL (Biological study), PREP (Preparation), RACT
(Reactant or reagent), USES (Uses)
(isoprenoid analog compds. for diagnosis and treatment of cancer)
RN 491861-20-2 RACPUS

N 491861-20-2 (RACPUS

N 491861-20-2 (RACPU

Double bond geometry as shown.

491861-19-9F 491861-21-3F 491861-22-4F 491861-23-5F
RI: DGM (Dlagnostic use); SFN (Synthetic preparation); THU (Therapeutic

ANSWER 2 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

transferase)
798573-64-5 ECAPLUS
1-Maphthalenesulfonamide, 5-[[(2E,6E)-8-(acetyloxy)-2,6-dimethyl-2,6-octadienyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

REFERENCE COUNT:

THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(isoprenoid analog compds, for diagnosis and treatment of cancer)
491861-19-9 ECAPLUS
1-Naphthalnesulfonamide, 5-{{(2E,6E,10E)-12-(acetyloxy)-2,6,10-trimethyl2,6,10-dodecatrienyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

491861-21-3 HCAPLUS
Diphosphoric acid, mono[(2E,6E,10E)-12-[[5-[(dimethylamino)sulfonyl]-1-naphthalenyl]amino]-3,7,11-trimethyl-2,6,10-dodecatrienyl] ester (9CI)
(CA INDEX NAME)

Double bond geometry as shown.

491861-22-4 HCAPLUS
1-Naphthalenesulfonamide, 5-[[(2E,6E)-8-hydroxy-2,6-dimethyl-2,6-octadlenyl]mainoj-N.N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

ANSWER 3 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) 491861-23-5 HCAPLUS Diphosphoric acid, mono[(2E,6E)-8-[[5-[(dimethylamino)sulfonyl]-1-naphthalenyl]amino]-3,7-dimethyl-2,6-octadienyl] ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

ANSWER 4 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

343312-11-8 HCAPLUS 6,10,14,18,22,26,30,34,38-Tetracontanonaen-1-ol, 3,7,15,19,23,27,31,35,39-nonamethyl-11-{(1-naphthalenylamino)methyl}-, (62,10E,142,182,222,262,30E,34E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-B

343312-12-9 HCAPLUS 6,10,14,18,22,26,30,34,38,42-Tetratetracontadecaen-1-ol, 3,7,15,19,23,27,31,35,39,43-decamethyl-11-[(1-naphthalenylamino)methyl]-, (62,10E,142,182,222,262,302,34E,38E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L8 ANSWER 4 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 10 Apr 2001
ACCESSION NUMBER: 2001:252486 HCAPLUS
DOCUMENT NUMBER: 135:19790

AUTHOR(S): Synthesis of dolichyl phosphates with a fluorescent label in the y-isoprene unit of the chain
Crigorieva, N. Ya.; Pinsker, O. A.; Mal'tsev, S. D.;
Danilov, L. L.; Shibaev, V. N.; Jedrzejas, M. J.
N. D. Zelinsky Institute of Organic Chemistry, Russian
Academy of Sciences, Moscow, 117913, Russia
COBEN: REDURY, ISSN: 1066-5285
CONSULTANT BUREAU
JOURNAL BUREAU
JOURN

Double bond geometry as shown.

PAGE 1-A

ANSWER 4 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

343311-92-2P 343311-99-9P 343312-00-5P
RL: SPN (Synthetic preparation), PREP (Preparation)
(synthesis of dolichyl phosphates with a fluorescent label)
343311-92-2 HCAPLUS
6,10,14,18,22,26-0ctacosahexaen-1-ol, 3,7,15,19,23,27-hexamethyl-11-[(1-naphthalemylamino)methyl]-, dihydrogen phosphate (ester), diammonium salt, (62,10E,14E,18E,22E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A H203P0

ANSWER 4 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

PAGE 1-B

343311-99-9 ECAPLUS 6,10,14,18,22,26,30,34,38-Tetracontanonaen-1-ol, 3,7,15,19,23,27,31,35,39-nonamethyl-11-[(1-naphthalenylamino)methyl]-, dihydcogen phosphate (estet), diammonium salt, (6Z,10E,14Z,18Z,2ZZ,26Z,30E,34E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-B

343312-00-5 HCAPLUS

L8 ANSWER 5 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 07 Dec 2000
ACCESSION NUMBER: 2000:857079 HCAPLUS
DOCUMENT NUMBER: 134:172483
TITLE: Ultrahigh pressure liquid chromatography/time-of-flight mans spectrometry for fast separations
AUTHOR(S): Wu, Naijun, Collins, David C., Lippert, J. Andreas, Xiang, Yanqiao, Lee, Milton L.
CORPORATE SOURCE: Department of Chemistry and Biochemistry, Brigham Young University, Provo, UT, 84602-5700, USA
JOURNAL OF Microcolumn Separations (2000), 12(8), 462-469
COLDEN: JMSEEJ; ISSN: 1040-7685
JOHN Wiley & Sons, Inc.
JOCUMENT TYPE: Journal
LANGUAGE: John Wiley & Sons, Inc.
JOCUMENT TYPE: Journal
LANGUAGE: Mercently, ultraHPLC (UHPLC) was shown to overcome the pressure limitations that small particles impose on conventional pumping systems. High speed sepns. in UHPLC produce peak widths that range between 100 to 1000 mm, of which many are too narrow to be monitored by scanning mass spectrometers. The only mass spectrometer that is fast enough for such sepns. is the time-of-flight mass spectrometer (TOPMS). State-of-the-art TOPMS instruments for liquid chromatog, can record and store complete mass spectra at rates \$100 spectra s-1. High speed sepns. with high resolution were demonstrated using 13-15 cm + 29-100 µm internal diameter capillaries packed with 1.5 µm nonporous octadecylsilane—and isohexylsilane—modified silica particles using a home-built UHPLC system. The UHPLC system was successfully coupled to TOPMS via a liquid-sheath electrospray interface. Sepns. of selected combinatorial chemical samples, pharmaceutical compds. and herbicides were completed in <100 s using UHPLC/TOPMS. Total column efficiencies ranged from 20,000-30,000 plates. The fundamental and practical aspects of UHPLC/TOPMS are discussed. Results are compared with those obtained from typical capillary LC.

17 227302-93-4
RL: ANT (Analyte); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC (Process)

227302-93-4

RL: ANT (Analyte); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC (Process)

(ultrahigh pressure liquid chromatog./time-of-flight mass spectrometry for fast separation of combinatorial compds.)

227302-93-4 ECAPLUS
2,8,12-Pentadecatrien-6-ynamide, 11-hydroxy-2,10,12-trimethyl-15-phenyl-N-tricyclo[3,3,1.13,7]dec-1-yl-, (28,8E,10R,11R,12E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

16

REFERENCE COUNT:

THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) 6.10,14,18,22,26,30,34,38,42-Tetratetracontadecaen-1-ol, 3.7,15,19,23,27,31,35,39,43-decamethyl-il-[(1-naphthalenylamino)methyl]-, dihydrogen phosphate (ester), diammonium salt, (62,108,142,182,222,262,302,342,382)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A

●2 NH3

PAGE 1-B

REFERENCE COUNT:

17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 20 Jul 2000
ACCESSION NUMBER: 2000:490070 HCAPLUS
IGNICATION NUMBER: 133:266274
TITLE: 133:266274
The Synthesis and Evaluation of a Solution Phase Indexed Combinatorial Library of Non-Natural Polyenes for Reversal of P-Glycoprotein Mediated Multidrug Resistance
AUTHOR(S): Andrus, Merritt B.; Turner, Timothy M.; Sauna, Zuben E.; Ambudkar, Suresh V.
Department of Chemistry and Biochemistry, Brigham Young University, Provo, UT, 84602-5700, USA Journal of Organic Chemistry (2000), 65(16), 4973-4983 COEM: JOCEAN; ISSN: 0022-3263
American Chemical Society Journal English CASREACT 133:266274

PUBLISHER: DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

A combinatorial library of polyenes, based on (-)-stipiamide, has been constructed and evaluated for the discovery of new multidrug resistance reversal agents. A palladium coupling was used to react each individual vinyl iodide with a mixture of seven acetylenes at near l:1 stoichiometry. The coupling was also used to react each individual acetylene with a mixture of six vinyl iodides to create 13 pools indexed in two dimensions for a total of 42 compds. Individual compds. were detected at equimolar centration. The vinyl iodides, made initially using a crotylborane addition to generate the anti-1,2-hydroxylmethyl products, were now made using a more efficient norephedrine propionate boron enolate aldol reaction. The indexed approach, ideally suited for cellular assays that involve membrane-bound targets, allowed for the rapid identification of reversal agents using assays with drug-resistant human breast cancer MCF7-adrR cells. Intersections of potent pools identified new compds, with promising activity. Aryl dimension pools showed R = Ph and naphthyl as the most potent. The acetylene dimension had R1 = phenylalaninol and alaninol as the most potent. The solated individual compds. both active and nonpotent, were assayed to confirm the library results. The most potent new compound was polyene I [R = 2-naphthyl, R1 = phenylalaninol] at 1.45 µM. Other nonnatural individual naphthylamide compds. showed potent MDR reversal including I R = 2-naphthyl, R1 = morpholinol (1.69 µM). Synegistic activities attributed to the two ends of the mol. were also identified. Direct interaction with Pgp was established by AFPsas and photoaffinity displacement assays. The results indicate that both ends of the polyene reversal agent are involved in Pgp interaction and can be further modified for increased potency.
227302-05-49 227302-93-04 227303-27-7P. R27303-10-97 227303-10-98 277303-10-79 227303-10-79 227303-10-79 227303-10-79 227303-10-79 R27303-10-79 R27303-10-79 R27303-10-79 R27303-10-79 R27303-10-79 R27303-10-79 R27303-10-79 R

ANSWER 6 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
study), PREF (Preparation)
(synthesis and evaluation of a soln. phase indexed combinatorial
library of non-natural polyenes for reversal of P-glycoprotein mediated
multidrug resistance)
227302-85-4 HCAPLUS
2,8,12-Octadecatrian-6-ynamide, 11-hydroxy-2,10,12-trimethyl-Ntricyclo[3.3.1.13,7]dec-1-yl-, (2E,8E,10R,11R,12E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

227302-93-4 HCAPLUS 2,8,12-Pentadecatrien-6-ynamide, 11-hydroxy-2,10,12-trimethyl-15-phenyl-N-tricyclo(3,3.1.13,7)dec-1-yl-, (2E,8E,10R,11R,12E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

227303-01-7 HCAPLUS
2,8,12-Pentadecatrien-6-ynamide, 15-cyclohexyl-11-hydroxy-2,10,12-trimethyl-N-tricyclo[3.3.1.13,7]dec-1-yl-, (2E,8E,10R,11R,12E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

ANSWER 6 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) 227303-27-7 HCAPLUS 2,8,12-Pentadecatrien-6-ynamide, 15-(3,4-dimethoxyphenyl)-11-hydroxy-2,10,12-trimethyl-N-tricyclo[3.3.1.13,7]dec-1-yl-, (2E,8E,10R,11R,12E)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown

PAGE 1-B

227302-84-3P
RL: RCT (Reactant): SFN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)
(synthesis and evaluation of a solution phase indexed combinatorial library of non-natural polyenes for reversal of P-glycoprotein mediated multidrug resistance)
227302-84-3 ECAPSUS
2-Repten-G-ynamide, 2-methyl-N-tricyclo[3.3.1.13,7]dec-1-yl-, (ZE)- (9CI) (CA INDEX NAME)

Double bond geometry as shown

REFERENCE COUNT:

THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 6 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

PAGE 1-B

227303-10-8 HCAPLUS 2,8,12-Pentadecatrien-6-ynamide, 11-hydroxy-2,10,12-trimethyl-N,15-biastricycole(3,3,1,13,7)dec-1-yl)-, (2E,8E,10R,11R,12E)- (9CI) (CA INDEX

Absolute stereochemistry. Double bond geometry as shown.

227303-19-7 HCAPLUS
2,8,12-Pentadecatrien-6-ynamide, 11-hydroxy-2,10,12-trimethyl-15-{2-*
naphthalenyl}-N-tricyclo[3.3.1.13,7]dec-1-yl-, (2E,8E,10R,11R,12E)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

L8 ANSWER 7 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 19 Jun.2000 ACCESSION NUMBER: 2000:403626 HCAPLUS DOCUMENT NUMBER: 133:252578 ED ENTERED E

Dolichyl phosphate derivatives with a fluorescent label at an internal isoprene unit forigoriev, Natalia Y. Pinsker, Ol'ga A., Maltsev, Sergei D., Danilov, Leonid L., Shibaev, Vladimir N., Jedrzejas, Mark J.
N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Moscow, 117913, Russia Mendeleev Communications (2000), (3), 92-93 CODEN HENCEX, ISSN: 0959-9436 Russian Academy of Sciences Journal English Dased on directed aldol condensation (2002) AUTHOR (5):

CORPORATE SOURCE:

SOURCE:

PUBLISHER: RUSSIAN Academy of Sciences

DOCLMENT TYPE: Journal

LANGUAGE: Registan Academy of Sciences

DOCLMENT TYPE: Journal

AB A general approach based on directed aldol condensation followed by reductive amination with fluorescent amines and phosphorylation was developed and illustrated by the synthesis of two dollchyl phosphate derivs. with the 1-aminonaphthalene fluorophore at the y-isoprene unit of the chain.

IT 29486-6-0-5P 29486-6-49-3P

RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)

(preparation of dollchyl phosphate derivs. with a fluorescent label at internal isoprene unit)

RN 294846-40-5 HCAPLUS

CM 6,10,14,16,18,20-Docosahexaen-1-ol, 3,7,15,17,19,21-hexamethyl-il-[(1-naphthalenylamino)methyl]-, (6Z,10E,14E,16E,18E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

294846-48-3 HCAPLUS 5,9,13,17,21,25,29,33,35,37-Nonatriacontadecaen-1-o1, 2,6,14,18,22,26,30,34,36,38-decamethyl-10-{(1-naphthalenylamino)methyl}-, (52,9E,132,172,212,252,292,33E,35E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

ANSWER 7 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

294846-41-6P 294846-44-9P 294846-45-0P
294846-49-4P
RL: SPM (Synthetic preparation), PREP (Preparation)
(preparation of dolichyl phosphate derivs. with a fluorescent label at internal isoprene unit)
294846-41-6 ENCAPUD:
6,10,14,16,18,20-Docosahexaen-1-ol, 3,7,15,17,19,21-hexamethyl-11-[(1-naphthalenylamino)methyl]-, dihydrogen phosphate (ester), diammonium salt, (62,10E,14E,16E,18E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

●2 NH3

294846-44-9 HCAPLUS
5,9,13,17,21,25,29,31,33-Pentatriacontanonaen-1-ol,
2,6,14,18,22,26,30,32,34-nonamethyl-10-{(1-naphthalenylamino)methyl]-,
(52,9E,132,172,212,252,29E,31E)- (9CI) (CA INDEX NAME)

ANSWER 7 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

PAGE 1-B

(Continued)

294846-49-4 HCAPLUS 6,10,14,18,22,26,30,34,36,38-Tetracontadecaen-1-ol, 3,7,15,19,23,27,31,35,37,39-decamethyl-11-[(1-naphthalenylamino)methyl]-, dibydrogen phosphate (ester), diammonium salt, (62,10E,14Z,18Z,2ZZ,26Z,30Z,34E,36E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

●2 NH3

PAGE 1-B

17

REFERENCE COUNT:

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 7 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

294846-45-0 HCAPLUS 5,9,13,17,21,25,29,31,33-Pentatriacontanonaen-1-ol, 2,6,14,18,22,26,30,32,34-nonamethyl-10-[(1-naphthalenylamino)methyl]-, dihydrogen phosphate (ester), diammonium salt, (52,98,132,172,212,252,285,318)-[9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A

L8 ANSWER 8 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 10 May 2000
ACCESSION NUMBER: 2000:303525 HCAPLUS

DOCUMENT NUMBER: 133:89286

TITLE: Symmetrically-substituted decalin-based scaffolds

AUTHOR(S): Plyta, Zoi F.; Heller, Eberhard; Duman, Francoise; Miet, Christine; Mahuteau, Jacqueline; d'Angelo, Jean; Caturla, Juan; Dau, Marie-Elise Tran Hau

CORPORATE SOURCE: Center d'Etudes Pharmaceutiques, Universite de Paris

Sud, Laboratoire de Synthese Organique, BIOCIS, Unite associea au CRRS 5, Chatenay-Malabry, 22296, Fr.

Tetrahedron Letters (2000), 41(16), 2907-2910

CODEN: TELEAN; ISSN: 0040-4039

PUBLISHER: Elsewier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The synthesis of a chiral scaffold was achieved by coupling

(2R, 75)-rel-4a-[[[(1,1-dimethylethyl)phenylsilyl]oxy]methyl]decahydro-2,7naphthalenediol with (2R, 48)-4-[[(1,1-dimethylethoxy)carbonyl]mino]-2methyl-2-pentenoic acid. The target compound was (2E, 45)-4-[[(1,1-dimethylethyl)phenylsilyl]oxy]methyl]decahydro-2,7naphthalenediyl ester. The two side chains of this mol. strongly

self-associate through intramol. hydrogen bonding involving the NH-BOC

residues. The Mosher ester analog of the above decalin derivative was also

prepared; (aR)-a-methoxy-a-(trifluoromethyl)benzeneacetic

acid (2R, 75)-4a-[[[(1,1-Dimethylethyl)phenylsilyl]oxy]methyl]decahydro-2,7naphthalenediyl ester.

R1 281193-88-2

R1: PRP (Properties)

(preparation and properties of [[(dimethylethoxy)carbonyl]mino]-2-methyl-,

(2a, 4aB, 7a, 8a9, a-decahydro-4- (methoxymethyl)-2,7naphthalenediyl ester, (2E, 2'E, 4R, 4'R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry. Double bond geometry as shown.

ANSWER 8 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) dimethylethyl)diphenylsilyl]oxyjmethyl]decahydro-2,7-naphthalenediyleter, (2E,2'E,48,4'8)-rel- (9C1) (CA INDEX NAME)

Relative stereochemistry. Double bond geometry as shown.

REFERENCE COUNT

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 9 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

REFERENCE COUNT:

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 23

L8 ANSWER 9 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 24 Mar 2000
ACCESSION NUMBER: 2000:188799 HCAPLUS
DOCUMENT NUMBER: 133:4276
DEFECTION OF Baylis-Hillman Adducts
Trost. Barcy H., Tsui, Hon-Chung; Toste, F. Dean
Department of Chemistry, Stanford University,
Stanford, CA, 94305-5080, USA
JOURNAL OF HE MARKET CAN DEPART OF TYPE: 127(14), 3534-3535
CODEN: JACSAT; ISSN: 0002-7863
American Chemical Society
JOURNAL DOURNERS OUNCE(S): CASREACT 133:4276

Pd2dba3 in presence of a chiral ligand catalyzed the reaction of phenols with carbonates of Baylis-Hillman adducts RCH(OCOZMe)C(EWG):CH2 (I, R = Pr. PKCH2CH2, etc., EWG = CN, COZET).
270903-55-4P 270903-56-59
RL: SFN (Synthetic preparation), PREP (Preparation) (deracemization of Baylis-Hillman adducts)
270903-55-4 ECAPLUS
2-Hexenoic acid, 2-[(1-naphthalenyloxy)methyl]-, ethyl ester (9CI) (CA INDEX NAME) AB

IT

270903-56-5 HCAPLUS
2-Hexenenitrile, 2-[(1-naphthalenyloxy)methyl]- (9CI) (CA INDEX NAME)

L8 ANSWER 10 OF 20 BCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 05 Mar 2000
ACCESSION NUMBER: 2000:146880 ECAPLUS
132:308514
Chemical and enzymatic modifications of integric acid and HLV-1 integrase inhibitory activity
SURPORATE SOURCE: Singh, Shee B., Felock, Feter Hazuda, Daria J.
Natural Products Drug Discovery, Merck Research
Laboratories, Rahway, NJ, 07065, USA
Bioorganic & Medicinal Chemistry Letters (2000), 10(3), 235-238
CODEN: BMCLE8: ISSN: 0960-894X
Elsevier Science Ltd.
Journal

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI

Integric acid, an acyl eremophilane sesquiterpenoid, was identified as an inhibitor of HIV-1 integrase, the enzyme responsible for provirus entry into the host cell nucleus and integration in to the host genome. Chemical and enzymic modification of integric acid led to the preparation of several selective chemical derivs., e.g. I and II, of integric acid. Preparation,

selective chemical derivs., e.g. I and II, of integric acid. Preparation, 1
inhibitory activity, and the structure-activity relationship against
coupled and strand transfer assays are described. It appears that most of
the groups present in the natural product are required for inhibition of
HIV-1 integrase strand transfer activity. In contrast, inhibition of 3'
processing activity is less stringent suggesting distinct SAR for the two
integrase reactions.
218866-65-2, Integric acid
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); RCT (Reactant); BIOL (Biological study); RACT
(Reactant or reagent)
(chemical and enzymic modifications of integric acid and HIV-1 integrase
inhibitory activity)
218966-65-2 HCAPLUS
1-Naphthalenecarboxylic acid, 4-[[(2E)-2,4-dimethyl-1-oxo-2-octenyl]oxy]-7(15,48,75,88K)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

L8 ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN Double bond geometry as shown. Currently available stereo shown. (Continued)

254976-47-1P 254976-48-2P 264255-62-1P
264255-63-2P 264255-65-4P 264255-68-7P
264255-69-8P 264255-71-2P 264255-72-3P
264255-73-4P 264255-71-5P 264255-75-6P
264255-73-4P 264255-77-6P
264255-73-4P 264255-77-6P
264255-76-7P 264255-77-6P
26425

Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown.

254976-48-2 HCAPLUS Benzeneacetic acid, $\alpha - \{ \{ \{(1S, 4R, 7S, 8aR\} - 4 - \{ \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR\} - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR) - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR) - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR) - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR) - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR) - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR) - 4 - \{(2B) - 2, 4 - dimethyl - 1 - oxo-barbare (1S, 4R, 7S, 8aR) - 4 - \{(2B) - 2, 4 - dimethyl - 4 - oxo-barbare (1S, 4R, 7S, 8aR) - 4 - \{(2B) - 2, 4 - dimethyl - 4 - oxo-barbare (1S, 4R, 7S, 8aR) - 4 - ((2B) - oxo-barbare (1S, 4R, 7S, 8aR) - 4 - ((2B) - oxo-barbare (1S, 4R, 7S, 8aR) - 4 - ((2B) - oxo-barbare (1S, 4R, 7S, 8aR) - 4 - ((2B) - oxo-barbare (1S, 4R, 7S, 8aR) - 4 - ((2B) - oxo-barbare (1S, 4R, 7S, 8aR) - 4 - ((2B) - oxo-barbare (1S, 4R, 7S, 8aR) - ((2B) - oxo-barbare (1S, 4R, 7S, 8aR) - ((2B) - oxo-barbare$

ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

264255-65-4 BCAPLUS
1-Naphthalenecarboxylic acid, 7-(2,2-dihydroxy-1-methylethyl)-4-[[(2E)-2,4-dimethyl-1-oxo-2-octenyl]oxy]-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-, (15,4R,7S,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

264255-68-7 HCAPLUS
1-Naphthalenecarboxylic acid, 4-[[(2E)-2,4-dimethyl-1-cxo-2-octenyl]oxy]-1,2,3,4,6,7,8,8a-octahydro-6-hydroxy-7-[1-(hydroxymethyl)ethenyl]-8a-methyl-, (18,4R,6R,78,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown

264255-69-8 HCAPLUS

ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) 2-octenyl]oxy]-7-(1-formylethenyl)-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-1-naphthalenyl]carbonyl]amino]-, methyl ester, (qR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-). Double bond geometry as shown. Currently available stereo shown.

264255-62-1 HCAPLUS
1-Maphthalenecarboxylic acid, 4-[[(2E)-2,4-dimethyl-1-oxo-2-octenyl]uxy]-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-7-[(1S)-1-methyl-2-oxoethyl]-6-oxo-,(1S,4R,7S,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

264255-63-2 HCAPLUS
1-Naphthalenecarboxylic acid, 4-[[(28]-2,4-dimethyl-1-oxo-2-octenyl]oxy]-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-7-[(1R)-1-methyl-2-oxoethyl]-6-oxo-,(15,4R,7S,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
1-Maphthalenecarboxylic acid, 4-[[(2B]-2,4-dimethyl-1-oxo-2-octenyl]oxy]1,2,3,4,6,7,8,8a-octahydro-6-hydroxy-7-[1-(hydroxymethyl)ethenyl]-8amethyl-, (15,4R,6S,7S,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

264255-71-2 BCAPLUS
2-Octenoic acid, 2,4-dimethyl-, (1R,4S,4aR,6S)-6-(1-formylethenyl)1,2,3,4,4a,5,6,7-octahydro-4-[[[(1S)-1-(methoxycarbonyl)-3methylbutyl]amino|carbonyl]-4a-methyl-7-oxo-1-naphthalenyl ester, (2E)(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown

264255-72-3 HCAPLUS
2-Octenoic acid, 2,4-dimethyl-, 1,4-piperazinediylbis[carbonyl[(1R,45,4aR,65)-6-(1-forw)lethenyl]-1,2,3,4,4a,5,6,7-octahydro-4a-methyl-7-cxo-4,1-naphthalenediyl]] ester, (2E,2'E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

L8 ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

.... . .

RN 264255-73-4 HCAPLUS
CN 2-Octenoic acid, 2,4-dimethyl-, 1,2-ethanediylbis[iminocarbonyl[(1R,45,4aR
,65)-6-(1-fcrmylethenyl)-1,2,3,4,4a,5,6,7-octahydro-4a-methyl-7-oxo-4,1naphthalenediyl]] ester, (2E,2'E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

L8 ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 264255-75-6 HCAPLUS
CN 1-Naphthalenecarboxylic acid, 4-[[(2E)-2,4-dimethyl-1-oxo-2-octenyl]oxy]-7(1-formylethenyl)-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-, anhydride
with diethyl hydrogen phosphate, (1S,4R,75,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

RN 264255-76-7 BCAPLUS
CN 1-Naphthalenecarboxylic acid, 4-[[(2E)-2,4-dimethyl-1-oxo-2-octenyl]oxy]-1,2,3,4,6,7,8,8-a-octahydro-8a-methyl-7-(1-methylene-2-propenyl)-6-oxo-, (15,4R,75,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

L8 ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

PAGE 1-A

PAGE 2-A

NY 264255-74-5 HCAPLUS

1-Naphthalenecarboxylic acid, 4-[[(2E)-2,4-dimethyl-1-oxo-2-octenyl]oxy]-7[1-formylethenyl)-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-, anhydride
with N,N'-dicyclohexylcarbamimidic acid, (15,48,75,8aR)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry. Double bond geometry as shown.

L8 ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 264255-77-8 HCAPLUS
CN 1-Maphthalenecarboxylic acid, 4-[[(2E)-2,4-dimethyl-1-oxo-2-octenyl]oxy]1,2,3,4,6,7,8,8a-octahydro-8a-methyl-7-(1-methyl-2-propenylidene)-6-oxo-,
(15,4R,8aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as described by E or 2.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAI

LE ANSWER 11 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 09 Dec 1999
ACCESSION NUMBER: 1399:777604 HCAPLUS
132:90477

TITLE: Structure and absolute stereochemistry of HIV-1 integrace acid. A novel eremophilane sesquiterpenoid produced by a Xylaria sp Singh, Shoe B.n. Zink, Deborah Pollshook, Jonn Valentino, Deliar Shafiee, Alii Silverman, Keith; Felock, Peter: Teran, Anar Vilella, Dolores: Hazuda, Daria J., Lingham, Russell B.

CORPORATE SOURCE: Natural Products Drug Discovery, Merck Research Laboratories, Rahvay, NJ, 07065, USA
Laboratories, Rahvay, NJ, 07065, USA
Totrahedron Letters (1999), 40(50), 8775-8779
CODEN: TELEAT: 155N: 0040-4039
Elsevier Science Ltd.

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI

HIV-1 integrase is critical for viral replication and is absent in the host, and therefore is a potential target for the development of non-toxic antiviral therapy. Integric acid (I), a novel eremophilane sesquiterpenoid, was isolated from the ferementation broth of Xylaria sp. (NFG254). I inhibited 3'-end processing, strand transfer and disintegration reactions catalyzed by HIV-1 integrase with IC50 values of 3-10 pM. The isolation, structure elucidation, relative, and absolute stereochem. of integric acid were described.
215866-65-2P, (+)-Integric acid were described.
215866-65-2P, (+)-Integric acid
RL: BAC (Bological activity or effector, except adverse); BSU (Biological study, unclassified), NPM (Metabolic formation); PRP (Properties); PUR (Purification or recovery); BIO1 (Biological study); FORM (Formation, nonpreparative); PREP (Preparation)
(isolation, mol. structure, absolute configuration, and HIV-1 integrase inhibiting activity of integric acid, a novel eremophilane sequiterpenoid metabolite of Xylaria sp. (MFG254))
215866-65-2 HCAPLUS
1-Naphthalenecarboxylic acid, 4-[[(2E)-2,4-dimethyl-1-cxo-2-octenyl]oxy]-7-(1-formylethenyl)-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-,
(15,4R,75,8a)- (GCI NDEX NAME)

Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown.

ANSWER 11 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

254976-48-2 HCAPLUS
Benzeneacetic acid, a-[[[(15,4R,7s,8aR)-4-[[(2E)-2,4-dimethyl-1-oxo-2-octenyl]oxy]-7-[-formylethenyl]-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-1-naphthalenyl]carbonyl]amino]-, methyl ester, (aR)- (9CI) (CA

Absolute stereochemistry. Rotation (-). Double bond geometry as shown. Currently available stereo shown.

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 11 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

215866-73-2P, (+)-Integric acid methyl ester 254976-47-1P

254976-48-2P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(isolation, mol. structure, absolute configuration, and HIV-1 integrase
inhibiting activity of integric acid, a novel eremophilane
sesquiterpenoid metabolite of Xylaria sp. (MF6254))
215866-73-2 HCAPLUS
1-Naphthalenecarboxylic acid, 4-[[(2E)-2,4-dimethyl-1-oxo-2-octenyl]oxy]-7(1-formylethenyl)-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-, methyl
ester, (15,4R,75,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown.

254976-47-1 HCAPLUS

Benzeneacetic acid, c=[[[(15,4R,75,8aR)-4-[[(2E)-2,4-dimethyl-1-oxo-2-octenyl]oxyl-7-[1-formylethenyl]-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-1-naphthalenyl]carbonyl]smino]-, methyl ester, (a5)- [9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown.

L8 ANSWER 12 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 22 Apr 1999 ACCESSION NUMBER: 1999;246151 HCAPLUS DOCUMENT NUMBER: 131:70216

AUTHOR (S):

1999:245151 HAPPLUS
ISOLATION and characterization of novel human immunodeficiency virus integrase inhibitors from fungal metabolites
Hazuda, Darias Blau, Carol Uncapher: Felock, Peter; Hastings, Jeffrey: Pramanik, Bernalir Wolfe, Abigail; Bushman, Frederics Parnet, Chris; Goetz, Michael; Williams, Maries Silverman, Keith; Lingham, Russell; Singh, Sheo
Department of Antiviral Research, Merck Research Laboratories, West Point, PA, 19486, USA Antiviral Chemistry & Chemotherapy (1999), 10(2), 63-70
CODEN: ACCHEH; ISSN: 0956-3202
International Medical Press
Journal

SOURCE:

PUBLISHER: CODEN: ACCHEH; ISSN: 0956-J2U2
International Medical Press
DOCUMENT TYPE: Journal
LANGUAGE: Briglish
AB We have identified a series of novel inhibitors of human immunodeficiency
virus type 1 (HIV-1) integrase by randomly screening natural product exts.
using an in vitro blochem, assay designed to identify inhibitors of
integrase-catalyzed strand transfer. Equisetin recovered from the fungus
Fusarium heterosporum and a novel enantiomeric homolog of equisetin from
Phoma sp. were isolated as inhibitors of HIV-1 integrase in vitro. Two
addnl. analogs, a novel decalin derivative, integric acid, and oteromycin
were

addnl. analogs, a novel decalin derivative, integric acid, and oteromycin also discovered to be inhibitors of integrase. Equisetin and related compds. inhibit 3' end-processing and strand transfer as well as disintegration catalyzed by either the full-length enzyme or the truncated integrase core domain (amino acids 50-212). These compds. also inhibit strand transfer reactions catalyzed by stable complexes assembled in vitro and integration reactions catalyzed by pre-integration complexes isolated from HIV-1-infected cells. The compds. described in this report are structurally novel and mechanistically distinct from many previously described inhibitors of HIV-1 integrase. These results demonstrate the utility of using an appropriately configured assay to identify compds. that are effective post-assembly and the potential of isolating novel integrase inhibitors from complex natural product exts.

215866-52-P2. Integric acid
RL: BAC (Biological activity or effector, except adverse): BOC (Biological occurrence): BSU (Biological study, unclassified): PUR (Purification or recovery): BIOL (Biological study): OCCU (Occurrence): PREP (Preparation) (isolation and characterization of novel human immunodeficiency virus integrase inhibitors from fungal metabolites)

215866-65-2 HCAPLUS
1-Naphthalenecarboxylic acid, 4-[{(2E)-2,4-dimethyl-1-oxo-2-octenyl]oxy}-7-(1-formylethenyl)-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-, (lute stereochemistry. Rotation (+).

Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown.

ANSWER 12 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

REFERENCE COUNT:

33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 13 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 16 Apr 1999 ACCESSION NUMBER: 1999:234630 HCAPLUS DOCUMENT NUMBER: 191:44674

DOCUMENT NUMBER: TITLE:

AUTHOR (S): CORPORATE SOURCE: SOURCE: PUBLI SHER: DOCUMENT TYPE: LANGUAGE: GI

A solution-phase library, based on the multidrug resistance reversing polyene, (-)-stipiamide (I), that consists of mixts. indexed in two dimensions that provides for efficient combinatorial synthesis, direct screening with a cellular assay, and the isolation and testing of individual compds. is reported.

227302-85-84- 227302-93-47 227303-01-7P
227303-10-87 227303-19-7P 227303-27-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis and evaluation of a solution-phase combinatorial library of non-natural polyenes for multidrug resistance reversal)
227302-85-4 ECAPLUS
28,812-0ctdsecatrien-G-ynamide, 11-hydroxy-2,10,12-trimethyl-N-tricyclo[3.3.1.13,7]dec-1-yl-, (2E,8E,10R,11R,12E)- (9CI) (CA INDEX NAME)

131:44674
The Synthesis and Evaluation of a Solution-Phase Indexed Combinatorial Library of Non-natural Polyenes-for Multidrug Resistance Reversal Andrus, Herritt B., Turner, Timothy M., Asgari, Davoud, Li, Wenke
Department of Chemistry and Biochemistry, Brigham Young University, Provo, UT, 84602-5700, USA
Journal of Organic Chemistry (1999), 64(9), 2978-2979
CODEN: JOCEAH; ISSN: 0022-3263
American Chemical Society
Journal

Absolute stereochemistry.
Double bond geometry as shown.

ANSWER 13 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

227302-93-4 HCAPLUS
2,8,12-Pentadecatrien-6-ynamide, 11-hydroxy-2,10,12-trimethyl-15-phenyl-N-tricyclo[3,3,1.13,7]dec-1-yl-, (2E,8E,10R,11R,12E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

227303-01-7 HCAPLUS
2.8.12-Pentadecatrien-6-ynamide, 15-cyclohexyl-11-hydroxy-2,10,12-trimethyl-N-tricyclo[3.3.1.13,7]dec-1-yl-, (2E,8E,10R,11R,12E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

PAGE 1-B

227303-10-8 HCAPLUS

2,8,12-Pentadecatrien-6-ynamide, 11-hydroxy-2,10,12-trimethyl-N,15-bis(tricyclo[3.3.1.13,7]dec-1-yl)-, (2E,8E,10R,11R,12E)- (9CI) (CA INDEX

Absolute stereochemistry.

L8 ANSWER 13 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN Double bond geometry as shown. (Continued)

227303-19-7 HCAPLUS 2.8.12-Pentadecatrien-6-ynamide, 11-hydroxy-2,10,12-trimethyl-15-(2-naphthalenyl)-N-tricyclo[3.3.1.13,7]dec-1-yl-, (2E,8E,10R,11R,12E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-B

227303-27-7 HCAPLUS 2,8,12-Pentadeatrien-6-ynamide, 15-{3,4-dimethoxyphenyl}-11-hydroxy-2,10,12-trimethyl-N-tricyclo[3.3.1.13,7]dec-1-yl-, (2E,8E,10R,11R,12E)-(9C1) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

ANSWER 13 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

PAGE 1-B

(Continued)

227302-84-3P
RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)
(synthesis and evaluation of a solution-phase combinatorial library of non-natural polyenes for multidrug resistance reversal)
227302-84-3 ECAPUIS
2-Hepten-6-ynamide, 2-methyl-N-tricyclo[3.3.1.13,7]dec-1-yl-, (2E)- (9CI)
(CA INDEX NAME)

Double bond geometry as shown

REFERENCE COUNT:

19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 14 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

215866-73-29 215866-73-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); TEU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USSS (Uses) (ermophilane sesquitecpenoids as HIV integrase inhibitors)
215866-73-2 RCAPLUS
1-Naphthalenecarboxylic acid, 4-[((2E)-2,4-dimethyl-1-oxo-2-octenyl)oxy]-7-(1-formylethenyl)-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-, methyl ester, (15,4R,7S,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown.

215866-65-2D, esters
RL: BAC (Biological activity or effector, except adverse): BSU (Biological study): USES (Uses)

(Uses)
(ermophilane sesquiterpehoids as HIV integrase inhibitors)
215866-65-2 HCAPLUS
1-Naphthalenecarboxylic acid, 4-[[(2E)-2,4-dimethyl-1-oxo-2-octenyl]oxy]-7(1-fornylethenyl)-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-,
(15,4R,7S,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown.

L8 ANSWER 14 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 22 Jan 1999 ACCESSION NUMBER: 1999:45072 HCAPLUS DOCUMENT NUMBER: 130:119582

DOCUMENT NUMBER: TITLE:

Ermophilane sesquiterpenoids as HIV integrase inhibitors

INVENTOR(5):

Innibitors
Lingham, Russell B.; Polishook, Jon David; Shafiee,
Ali; Silverman, Keith C.; Singh, Sheo Bux; Zink,

Deborah L.
Merck and Co., Inc., USA
U.S., 10 pp.
CODEN: USXXAM PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: English

LANGUAGE: FAHILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 5858738 19971104 19971104 A 19990112 US 1997-964081 US 1997-964081 PRIORITY APPLN. INFO.: OTHER SOURCE(5): MARPAT 130:119582

R SOURCE(S): MARPAT 130:119582

Natural products such as certain ermophilane sesquiterpenoids and derivs. thereof are described. These compds. are useful in the inhibition of HIV integrase, the prevention or treatment of infection by HIV and the treatment of AIDS, either as compds., pharmaceutically acceptable salts, pharmaceutical composition ingredients, whether or not in combination with other antivirals, immanosochilators, antihiotics or vaccines. Methods of treating AIDS and methods of preventing or treating infection by HIV are also described. The fungal culture MF0234, Mylaria sp. (ATC 74397) is also described and disclosed.

215866-63-27

Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown.

ANSWER 14 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 18 Dec 1998
ACCESSION NUMBER: 1998:791573 HCAPLUS
COCUMENT NUMBER: 130:10667
HIV integrase inhibitors from culture of Xylaria species
Lingham, Russell B.; Polishook, Jon D.; Shafiee, Alir Silverman, Reith C.; Singh, Sheo B.; Zink, Deborah L.
Herck and Co., Inc., USA
Brit. UK Pat. Appl., 35 pp.
CODEN: BANCHU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. KIND DATE GB 1997-22761 GB 1997-22761 GB 1996-25326 US 1996-29886P 19971028 19971028 19961205 19961107 GB 2319026 PRIORITY APPLN. INFO.: 19980513

OTHER SOURCE(S): MARPAT 130:10607

Natural products such as certain ermophilane sesquiterpenoids and derivs, useful in the inhibition of HIV integrase, the prevention or treatment of infection by HIV and the treatment of AIDS, ether as compds., pharmaceutically acceptable salts, pharmaceutical composition ingredients, whether or not in combination with other antivirals, immunomodulators, antibiotics, or vaccines are described. The compds. (IJ X = H, (substituted) CI-14 alkyl) are isolated from a novel fungal culture MF6254, Xylaria sp. (ATCC 74397).

215866-65-29
RL: BAC (Riological activity or effector, except adverse), BSU (Riological study, unclassified); PUR (Purtification or recovery); TEU (Therapeutic use), BIOL (Riological study); PREP (Preparation); USSS (Uses)
(HIV integrase inhibitors from culture of Xylaria species)
215866-65-2 HCAPLUS
1-Naphthalenecarboxylic acid, 4-[(2R)-2,4-dimethyl-1-oxo-2-octenyl]oxy]-7(1-formylethenyl)-1, 2,7,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-,
(15,4R,7s,8aR)- (9CI) (CA INDEX NAME)

ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown.

215866-69-6 HCAPLUS

2.3so-b3-6 and and a cold, 4-[[(2E)-2,4-dimethyl-1-oxo-2-octenyl]oxy]-7-(1-formylethenyl]-1,2,3,4,6,7,6,8a-octahydro-8a-methyl-6-oxo-, calcium salt, (15,48,7,5,88), (9C1) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown.

215866-70-9 HCAPLUS
1-Naphthalenecarboxylic acid, 4-[(2,4-dimethyl-1-oxo-2-octenyl)oxy]-7-(1-formylethenyl-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-, (1R,45,7R,8aS)-rel-, compd. with 1,2-ethanediamine (1:1) (9CI) (CA INDEX

CH 1

CRN 215866-65-2 CMF C25 H34 O6

L8 ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown. (Continued)

215866-66-3P 215866-67-4P 215866-69-6P
215866-70-9P 215866-71-0P 215866-72-1P
215866-73-2P 215866-71-0P 215866-72-1P
215866-73-2P 215866-74-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREF (Preparation); USES (Uses)
(BIV integrase inhibitors from culture of Xylaria species)
215866-66-3 HCAPUS
1-Naphthalenecarboxylic acid, 4-{[(22)-2,4-dimethyl-1-oxo-2-octenyl]oxy]-7-(1-formylethenyl)-1,23,4,6,7,8,83-octahydro-8a-methyl-6-oxo-, ammonium salt, (15,4R,75,8aR)- (SCI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown.

215866-67-4 ECAPLUS
1-Naphthalenecarboxylic acid, 4-[[(2E)-2,4-dimethyl-1-oxo-2-octenyl]oxy]-7-(1-formyl-thenyl)-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-, potassium salt, (15,4R,7S,8aR)- (9CI) (CA INDEX NAME)

L8 ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown.

H2N-CH2-CH2-NH2

215866-71-0 HCAPLUS
1-Naphthalenecarboxylic acid, 4-[(2,4-dimethyl-1-oxo-2-octenyl)oxy]-7-(1-formylethenyl)-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-, (1R,45,7R,8a5)-rel-, compd. with 2-amino-2-(hydroxymethyl)-1,3-propanediol (1:1) (9CI) (CA INDEX NAME)

CH 1

CRN 215866-65-2 CMF C25 H34 O6

Absolute stereochemistry. Rotati Double bond geometry as shown. Currently available stereo shown. Rotation (+).

L8 ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

CRN 77-86-1 CMF C4 H11 N O3

но-сн2-с-сн2-он

215866-72-1 ECAPLUS
L-Lysine, mono[rel-(1R,45,7R,8as)-4-[(2,4-dimethyl-1-oxo-2-octenyl)oxy]-7(1-formylethenyl)-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-1naphthalenecarboxylate] (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown.

2

CRN 56-87-1 CMF C6 H14 N2 O2

Absolute stereochemistry.

215866-73-2 HCAPLUS
1-Naphthalenecarboxylic acid, 4-[[(2E)-2,4-dimethyl-1-oxo-2-octenyl]oxy]-7-

L8 ANSWER 16 OF 20 ECAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 28 May 1994

ACCESSION NUMBER: 1294:270951 ECAPLUS

COUCHENT NUMBER: 120:270951 HCAPLUS

TOTAL Synthesis of (+)-13-ethyl-3-methoxygona1,3,5,9(11)-tetran-17-one via the tandem Claisen-ene strategy

AUTHOR(S): Groen-Piotrowska, E. M.; Groen, M. B.

CORPORATE SOURCE: Organo Sci. Dev. Group, Oss, 5340 EH, Neth.

RECUEL des Travaux Chimiques des Pays-Bas (1993), 112(12), 627-34

CODEN: RTCPA3; ISSN: 0165-0513

DOCUMENT TYPE:

Journal English CASREACT 120:270951 OTHER SOURCE(S):

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A total synthesis of the title compound I, a potential precursor of the progestagens desogestrel and 3-ketodesogestrel, is described. The backbone of the steroid was assembled by condensation of 1,2-dihydronaphthalene II with 6-nonen-2-ynoic acid III (TBDMS - tetr-butyldimethylsilyl) and subsequent Claisen rearrangement of the resulting enol ether to give disecosteroid V. Heating of IV at 170° gave a lil mixture of 9,11-secosteroids V and its 13a epimer. The 13p-epimer V was converted into 9,11-secogona-1,3,5(10)-triene-9,17-dione VI (X = BT), which was treated with triphenylphosphine under high pressure conditions (12 kbar, 55°) to give the corresponding phosphonium salt VI (X = PPRB BT) (VII). The intramol. Wittig reaction of VII proceeded with epimerization at C-9 to give exclusively the 8a epimer of I, which underwent isomerization upon treatment with acid to the title compound I.

II 154619-36-0P

RL: RCT (Reactant) PREP (Preparation): RACT (Reactant or reagent) (formation and Claisen rearrangement of)

RN 154619-36-0 ECAPLUS

CM G-Nonen-2-ynote acid, 8-[(3,4-dihydro-6-methoxy-1-naphthalenyl)oxy]-9-[(1,1-dimethylethyl)dimethylsilyl]oxy]-7-ethyl-, methyl ester, [S-(2)]-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) (1-formylethenyl)-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-, methyl ester, (15,4R,7S,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+). Double bond geometry as shown. Currently available stereo shown.

215866-74-3 HCAPLUS
1-Maphthalenecarboxylic acid, 4-[(2,4-dimethyl-1-oxo-2-octenyl)oxy]-7-(1-formylethenyl)-1,2,3,4,6,7,8,8a-octahydro-8a-methyl-6-oxo-, 1-methylethyl ester, (IR,4S,7R,8aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.

ANSWER 16 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

43

LS ANSWER 17 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 21 Mar 1987
ACCESSION UNMERE: 1987:85169 HCAPLUS
DOCUMENT NUMBER: 106:85169
TITLE: Study on radical telomerization of esters of methacrylic acid by using bromotrichloromethane and characteristics of the resulting telomers. III. Aryl methacrylates

AUTEDR(5): Kimura, Takaon Nakanishi, Itaru; Hamashima, Motome Kimura, Takaon Nakanishi, Itaru; Hamashima, Motome Polymer Journal (Tokyo, Japan) (1986), 19(10), 689-97
CODENT FOLDEN; FOLDEN; ISSN: 0032-3896
DOCUMENT TYPE: Journal (Tokyo, Japan) (1986), 19(10), 689-97
CODEN; POLDEN; ISSN: 0032-3896
DOCUMENT TYPE: Journal (Tokyo, Japan) (1986), 19(10), 689-97
CODEN; POLDEN; ISSN: 0032-3896
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CODEN; POLDEN; ISSN: 0032-3896

JOURNAL TYPE: Journal (Tokyo, Japan) (1986), 19(10), 689-97
CODEN; POLDEN; ISSN: 0032-3896

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CODEN; POLDEN; ISSN: 0032-3896

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CODEN; POLDEN; ISSN: 0032-3896

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CODEN; POLDEN; ISSN: 0032-3896

JOURNAL TYPE: Journal (Tokyo, Japan) (1986), 19(10), 689-97
CODEN; POLDEN; ISSN: 0032-3896

JOURNAL TYPE: Journal (Tokyo, Japan) (1986), 19(10), 689-97
CODEN; POLDEN; Japan (1986), 19(10), 689-97
CODEN; Japan (1986), 19(10), 689-97
CO

ANSWER 18 OF 20 HICAPLUS COPYRIGHT 2007 ACS on STN

L8 ANSWER 18 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 15 Jun 1985

ACCESSION NUMBER: 1985:204128 HCAPLUS

DOCUMENT NUMBER: 102:204128

ACYCLIC diastereoselection as a synthetic route to quassinoids: a Claisen rearrangement based strategy for bruceantin

AUTHOR(S): Ziegler, Frederick E.; Klein, Scott I.; Pati, Uttam K., Vang, Tein Fu

CORPORATE SOURCE: Sterling Chem. Lab., Yale Univ., New Haven, CT, 06511, USA

USA Journal of the American Chemical Society (1985), 107(9), 2730-7 CODEN: JACSAT; ISSN: 0002-7863 Journal English CASREACT 102:204128

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

Claisen rearrangement of allyl vinyl ether I, prepared in many steps from the oxodecalinearboxylic acid II (R = R1 = H), gave the [(benzoyloxy)ethyl]decalin derivative III having the correct stereo at C(8), C(9), and C(14) for quassinoids. Moreover, II (R = Me, R1 = MeoCH2O), a potential synthon for bruceantin, was also prepared 95531-82-1 RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and diastereoselective Claisen rearrangement of) 95531-82-1 HCAPLUS 2-Naphthalenecarboxylic acid, 1-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-1,4,4s,5,6,7,8,8a-octahydro-8a-methyl-3-[[2-methyl-5-(phenylmethoxy)-2-pentenyl]oxy]-, methyl estry [R-[1a,3(E),4aB,8aa]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

L8 ANSWER 19 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 23 Jun 1984
ACCESSION NUMBER: 1984:210218 HCAPLUS
DOCUMENT NUMBER: 100:210218
POLYPER NUMBER: 100:210218
POLYPER NI ASSIGNEE(S): POLYPER NI ASSIGNEE(S): Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JDOCAF
DOCUMENT TYPE: Patent
LNGUAGE: PATENT INFORMATION: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE 19831201 19910909 JP 58206554 JP 03059058 JP 1982-90886 19820527 PRIORITY APPLN. INFO.: JP 1982-90886

QCH2CMe:CHCHRICHR2CMe:CHCH2CH2CH2CH2CH2CH2CH2R [I, R = (protected) OH; R1,R2 = H, S(0)mR3 where m = 0, 1, 2 and R3 = alkyl, (halo) Ph, naphthyl, pyridyl, thiazolinyl; n = 10-18] were prepared Thus, QCHZCMe:CHCHZR4 (II, R4 = OH, n = 15), isolated from Pinus densiflors along with II (R4 = CH; n = 10-14, 16-18), was treated with HSPh in DMF containing K2CO3 to give II (R4 = SPh,

= 15), whose oxidation gave II (R4 = SO2Ph, n = 15), reaction of which (6.83 g) with 1.92 g BrCH2CMe:CHCCH2CH2CH2CH2CH2CH2(1 (Q1 = tetrahydropyran-2-yloxy) in THF containing (MeZN)3PO and BuLi at -10 to 0° for 1 h and then at 20° overnight gave 6.74 g I (R = tetrahydroyyran-2-yloxy, R1 = SO2Ph, R2 = H, n = 15), deprotection of which in EtOH-HC1-H2O gave I (R = OH, R1 = SO2Ph, R2 = H, n = 15).

90165-55-2
RL: RCT (Reactant): RACT (Reactant or reagent) (condensation of, with polyprenol derivs.)

90165-55-2 HCAPUS
6-Octen-1-01, 3,7-dimethyl-8-(2-naphthalenylsulfonyl)-, (2)- (9CI) (CA INDEX NAME)

90165-36-9P

ANSWER 19 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
90165-36-9 HCAPLUS
6,10,14,18,22,26,30,34,38,42,46,50,54,58,62,66,70,74,78Octacontanonadecaen-1-01, 3,7,11,15,19,23,27,31,35,39,43,47,51,55,59,63,6771,75,79-eicosamethyl-8-(2-naphthalenylsulfonyl)- (9CI) (CA INDEX NAME)

С— СН2— CH— CH2— CH2— CH2— CH2— CH2— OH

PAGE 1-B

PAGE 1-C

PAGE 1-D CH2-CH2-

PAGE 1-E

ANSWER 20 OF 20 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
e-Propyl-y-methylbutyrolactone, bl0 109°, hydrazide, m.
138°. e-Propyl-P-y-pentenic chloride, bl0
66-7°, anlide, m. 72°, β-naphthylamide, m.
117°. Ethyl e-brom-e-propyl-n-valerate, b8
99-100°, may be prepared by action of Br on the chloride of dipropylacetic acid. By treating this ester with diethylaniline, one obtains an unsaturated ester, b8 76-77°, which on saponification gives e-propyl-P-ethylacrylic acid (stable) m. 36°. There is a little of the unstable form produced at the same time. Ethyl ester (of stable form), bl0 83°. Acid chloride, b9 74°. Anlilde, m. 88°. Phaphthylamide, m. 88°. The unstable form may be transformed into stable form by conversion into the acid chloride by PC13 and subsequent treatment with pyridine.
861069-80-9, m-Pentenamide, N-2-naphthyl-m-propyl(two)

(two) 861069-80-9 HCAPLUS α-Pentenamide, N-2-naphthyl-α-propyl- (1CI) (CA INDEX NAME)

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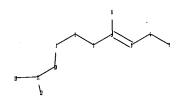
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http://www.cas.org/ONLINE/UG/regprops.html

Uploading C:\Program Files\Stnexp\Queries\10780391ss1.str



```
chain nodes:
1 2 3 4 5 6 7 8 10 11 12 13
chain bonds:
1-2 1-10 2-3 3-4 4-5 4-8 5-6 6-7 10-11 11-12 11-13
exact/norm bonds:
1-2 2-3 10-11
exact bonds:
1-10 3-4 4-5 4-8 5-6 6-7 11-12 11-13
```

G1:0,S

G2:0,S,N

Match level:
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS
Generic attributes:
1:
Saturation : Unsaturated
Type of Ring System : Polycyclic

Element Count : Node 1: Limited C,C10 L7 STRUCTURE UPLOADED

=> d 17 L7 HAS NO ANSWERS L7 STR

G1 O,S G2 O,S,N

Structure attributes must be viewed using STN Express query preparation.

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L8 1 SEA SSS SAM L7

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SEARCH TIME: 00.00.01

L9 11 SEA SSS FUL L7

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=> s 19 L10 · 2 L9

=> d ed ibib abs hitstr 1-2

L10 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS ON STN ED Entered STN: 05 Oct 2004 ACS.

ACCESSION NUMBER: 2004:807711 HCAPLUS DOCUMENT NUMBER: 142:6669

L111LE: Synthesis and Activity of Fluc

142:6669 Synthesis and Activity of Fluorescent Isoprenoid Pyrophosphate Analogues Kin, MeeKyoung; Kleckley, Troy S.; Wiemer, Andrew J.; Holstein, Sarah A.; Hohl, Raymond J.; Wiemer, David AUTHOR (S):

CORPORATE SOURCE:

Departments of Chemistry Pharmacology and Internal Medicine, University of Iowa, Iowa City, IA, 52242-1294, USA Journal of Organic Chemistry (2004), 69(24),

B186-8193

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:6669

AB New fluorescent analogs of farnesol and geranylgeraniol were prepared and then converted to the corresponding pyrophosphates. These analogs incorporate anthranylate or dansyl-like groups anchored to the terpenoid skeleton through amine bonds that would be expected to be relatively stable to metabolism After addition of the alcs. or the pyrophosphates to the

stable to metabolism After addition of the alcs. or the pyrophosphates to the culture medium, their fluorescence is readily observed inside a human-derived leukemia cell line. Enzyme assays have revealed that the farnesyl pyrophosphate analog is an inhibitor of FTase, while the corresponding alc. is not. These results, together with Western blot analyses of cell lysates, indicate that the farnesyl pyrophosphate analog penetrates the cells as an intact pyrophosphate and that it does so at a biol. relevant concentration

IT 491861-22-4P
RL BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

preparation; Note (billy deal scudy), FROM (repeatation); Note (water or reagent) of fluorescent analogs of farnesol and geranylgeraniol pyrophosphates as cellular imaging agents an inhibitors of farnesyl transferase) 491861-22-4 HCAPLUS
1-Maphthalenesulfonamide, 5-[(2E,6E)-8-hydroxy-2,6-dimethyl-2,6-octadienyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

LIO ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Double bond geometry as shown.

798573-66-7 HCAPLUS
1-Naphthalenesulfonamide, 5-[[(2E,6E)-8-chloro-2,6-dimethyl-2,6-octadienyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 798573-68-9 HCAPLUS
CN 1-Butanaminium, N,N,N-tributyl-,
(2E,6E)-8-[[5-[(dimethylamino) sulfonyl]-1naphthalenyl]amino]-3,7-dimethyl-2,6-octadianyl (diphosphate) (3:1) (9CI)
(CA INDEX NAME)

CRN 798573-67-8 CMF C22 H29 N2 O9 P2 5

Double bond geometry as shown.

LIO ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

798573-69-0P

798573-69-0P
RE: BSU (Biological study, unclassified); SPN (Synthetic preparation);
BIOL (Biological study); PREP (Preparation)
 (preparation of fluorescent analogs of farnesol and geranylgeraniol
 pyrophosphates as cellular imaging agents an inhibitors of farnesyl
 transferase;
788573-69-0 MCAPLUS
Diphosphoric acid, mono[(2E,6E)-8-[[5-[(dimethylamino)sulfonyl]-1naphthalenyl]amino]-3,7-dimethyl-2,6-octadienyl] ester, triammonium salt
(9CI) (CA INDEX NAME)

Double bond geometry as shown.

●3 NH3

798573-65-6P 798573-66-7P 798573-68-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of fluorescent analogs of farnesol and geranylgeraniol pyrophosphates as cellular imaging agents an inhibitors of farnesyl transferase)
798573-65-6 HCAPLUS
1-Waphthalenesulfonamide, 5-[[(2E,6E)-8-{[(1,1-dimethyl=thyl]dimethyl=sityl]oxy]-2,6-dimethyl-2,6-octadienyl]amino}-N,N-dimethyl- (9CI) (CA INDEX NAME)

L10 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN

2 CM

CRN 10549-76-5 CMF C16 H36 N

n-Bu-N+ Bu-n n-Bu

IT

798573-64-5P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of fluorescent analogs of farnesol and geranylgeraniol pyrophosphates as cellular imaging agents an inhibitors of farnesyl

transferase)
798573-64-5 HCRPUS
1-Naphthalenesulfonamide, 5-[[(2E,6E)-8-(acetyloxy)-2,6-dimethyl-2,6-octadienyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

REFERENCE COUNT: THIS

THERE ARE 62 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L10 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS ON STN ED Entered STN: 31 Jan 2003 ACCESSION NUMBER: 2003:77548 HCAPLUS DOCUMENT NUMBER: 138:142470 TITLE: 139prenoid analog compounds an area for the property of the property o

138:142470
Isoprenoid analog compounds and methods of making and use thereof
Wiemer, David; Hohl, Raymond J.
University of Iowa Research Foundation, USA
U.S. Pat. Appl. Publ., 18 pp.
CODEN: USXXCO
Patent
English INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO DATE DATE US 2003022869 US 6727234 US 2004167102 PRIORITY APPLN. INFO.: 20030130 20040427 20040826 US 2002-116737 20020403 20040217 P 20010403

A3 20020403

US 2002-116737

OTHER SOURCE(S): MARPAT 138:142470

AB The invention provides isoprenoid compds. and their pharmaceutically acceptable salts useful, for example, for blocking prenylation

transferase
enzymes, for probing or diagnosing protein prenylation processes, and for treating cancer in a mammal. A method of accessing the metabolic status of an enzyme comprises (a) contacting the enzyme with an effective amount of

nt of
a mixture of a farnesol analog compound and a geraniol or geranylgeraniol
analog compound, and (b) measuring the relative ratio of farnesylation to
geranylgeranylation of the farnesol and the geraniol or geranylgeraniol
analog compds. accomplished by the enzyme. The invention also provides
pharmaceutical compns., and processes for preparing isoprenoid compds.

and

IT

their intermediates.
491861-20-2P
RL: DON (Diagnostic use); RCT (Reactant); SPN (Synthetic preparation);

THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (isoprenoid analog compds. for diagnosis and treatment of cancer) 491861-20-2 HCAPLUS
1-Naphthalenesulfonamide, 5-{({2E, 6E, 10E})-12-hydroxy-2, 6, 10-trimethyl-2,6,10-dodecatrienyl]amino)-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L10 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

491861-22-4 HCAPLUS
1-Naphthalenesulfonamide, 5-{[(2E,6E)-8-hydroxy-2,6-dimethyl-2,6-octadienyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

491861-23-5 HCAPLUS
Diphosphoric acid, mono[(2E,6E)-8-[[5-[(dimethylamino)sulfonyl]-1-naphthalenyl]amino)-3,7-dimethyl-2,6-octadlenyl] ester (9CI) (CA INDEX NAME)

L10 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

491861-19-9P 491861-21-3P 491861-22-4P 491861-23-5P

491861-23-5P
RL: DGN (Diagnostic use): SPN (Synthetic preparation): THU (Therapeutic use): BIOL (Biological study): PREP (Preparation): USES (Uses)
(isoprenoid analog compds. for diagnosis and treatment of cancer)
RN 491861-19-9 HCAPLUS
CN 1-Naphthalenesulfonamide,
5-[{(2E, 6E, 10E)-12-(lacetyloxy)-2, 6, 10-trimethyl2,6,10-dodecatrienyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

491861-21-3 HCAPLUS
Diphosphoric acid, mono{{2E,6E,10E}-12-{[5-{(dimethylamino)sulfonyl}-1-naphthalenyl}amino]-3,7,11-trimethyl-2,6,10-dodecatrienyl] ester {9CI}
(CA INDEX NAME)

Double bond geometry as shown.

=> log y		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	13.14	531.45
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.56	-1.56

STN INTERNATIONAL LOGOFF AT 09:40:46 ON 05 JAN 2007